

not so infected turned yellowish-white and died in three or four weeks. The plants from unsterilized seeds produced leaves with many more bacterial knots on them than did those from sterilized seeds which were later artificially inoculated. In view of the fact that these Rubiaceae with bacterial knot bearing leaves occur in many parts of the tropics and that in India at least the value of their leaves for manure has long been recognized, and judging from the value of the Leguminosae as nitrogen collectors, the suggestion of Faber is well worthy of consideration, that we may have in these tropical trees and shrubs, plants of positive agricultural value for the tropical planter. Even in Florida the value of the mulch formed by the leaves of leguminous and other plants is keenly appreciated by the best cultivators and it may be possible to find suitable small shrubs of Pavetta or other Rubiaceae which will be worth while growing for their nitrogen-fixing leaf bacteria in the orange and avocado orchards of southern Florida or wherever the climate will permit of their cultivation." (David Fairchild.)

Pistacia chinensis Bunge. (Anacardiaceae.) 42823. Seeds of **Huang lien shu** from Nanking, China. Presented by Mr. John H. Reisner at the request of Rev. Joseph Bailie, University of Nanking. A tall, deciduous tree, strikingly ornamental, with large pinnate leaves, red when young, changing to vivid green in summer and flaming scarlet yellow in fall. Berries inedible. Many trees previously introduced have succeeded in the dry south west and an avenue has been planted at the entrance to the Chico Field Station.

Potentilla fruticosa vilmoriniana Komarow. (Rosaceae.) 42694. Plants from Paris, France. Purchased from Vilmorin-Andrieux & Company. Introduced from China by Mr. Maurice L. Vilmorin, this new *Potentilla* forms a tufted shrub, very erect, a meter in height, with silky very silvery foliage, and covered during the whole season with pale sulphur yellow flowers, larger than those of the species. Very suitable for massing in a shrubbery border.

Pyrus spp. (Malaceae.) 42779, 42796-42798. Seeds of four species of **pears** from Madrid, Spain, and Leiden, Holland. Introduced for the work of the Office of Horticultural and Pomological Investigations. 42779.